
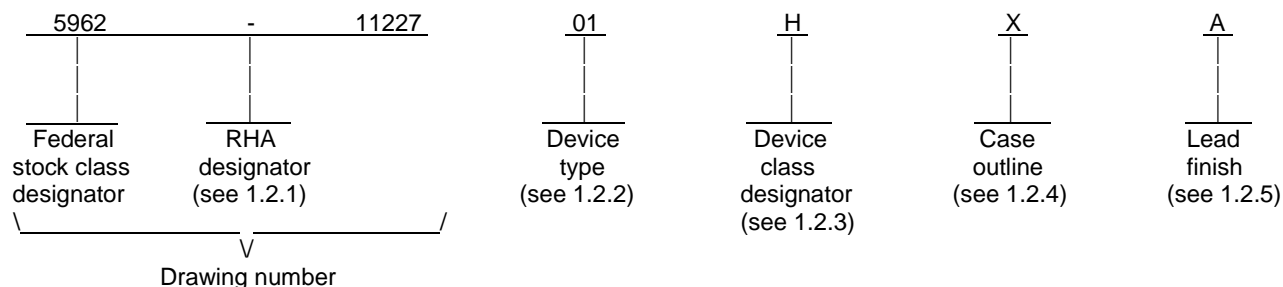


REVISIONS																			
LTR	DESCRIPTION										DATE (YR-MO-DA)				APPROVED				
A	Paragraph 1.3; Correct power dissipation from 11 W to 6 W. Table I; Correct output voltage test conditions for +V <sub>OUT</sub> and -V <sub>OUT</sub> , correct efficiency test conditions, correct max value for short circuit power dissipation test from 11 W to 6 W. -gc										12-11-29				Charles F. Saffle				
B	Paragraph 1.3: Remove "Power dissipation (P <sub>D</sub> , full load, T <sub>C</sub> = +125°C)", "Output power", and "Case operating temperature range (T <sub>C</sub> )". Table I: For Input current test, correct "Inhibit (pin 1)" to "Inhibit (pin 2)" two places. Case outline X, correct diagram and dimensioning table. Case outline Y, correct diagram and dimensioning table. -gc										14-05-05				Charles F. Saffle				
C	Table I: Correct max limit for short circuit power dissipation test from 6 W to 11 W. -gc										14-06-05				Charles F. Saffle				
D	Figure 1, Case outline X: added dimensions "G1", "G2", "G3", and "G4" for lead spacing and removed dimension "H". Figure 1, Case outline Y: added dimensions "J1", "J2", "J3", and "J4" for lead spacing and removed dimension "K". -sl										15-05-05				Charles F. Saffle				
																			
REV																			
SHEET																			
REV																			
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REV STATUS				REV		D	D	D	D	D	D	D	D	D	D	D	D	D	
OF SHEETS				SHEET		1	2	3	4	5	6	7	8	9	10	11	12	13	
PMIC N/A				PREPARED BY Greg Cecil				<b>DLA LAND AND MARITIME</b> <b>COLUMBUS, OHIO 43218-3990</b> <a href="http://www.landandmaritime.dla.mil">http://www.landandmaritime.dla.mil</a>											
<b>STANDARD MICROCIRCUIT DRAWING</b>  THIS DRAWING IS AVAILABLE FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE  AMSC N/A				CHECKED BY Greg Cecil															
				APPROVED BY Charles F. Saffle															
				DRAWING APPROVAL DATE 11-07-19															
				REVISION LEVEL D				SIZE A		CAGE CODE <b>67268</b>		<b>5962-11227</b>							
								SHEET 1 OF 13											

## 1. SCOPE

1.1 Scope. This drawing documents five product assurance classes as defined in paragraph 1.2.3 and MIL-PRF-38534. A choice of case outlines and lead finishes which are available and are reflected in the Part or Identifying Number (PIN). When available, a choice of radiation hardness assurance levels are reflected in the PIN.

1.2 PIN. The PIN shall be as shown in the following example:



1.2.1 Radiation hardness assurance (RHA) designator. RHA marked devices shall meet the MIL-PRF-38534 specified RHA levels and shall be marked with the appropriate RHA designator. A dash (-) indicates a non-RHA device.

1.2.2 Device types. The device types identify the circuit function as follows:

<u>Device type</u>	<u>Generic number</u>	<u>Circuit function</u>
01	DVHV2805D	DC-DC converter, 15 W, $\pm 5$ V outputs
02	DVHV2812D	DC-DC converter, 15 W, $\pm 12$ V outputs
03	DVHV2815D	DC-DC converter, 15 W, $\pm 15$ V outputs

1.2.3 Device class designator. This device class designator shall be a single letter identifying the product assurance level. All levels are defined by the requirements of MIL-PRF-38534 and require QML Certification as well as qualification (Class H, K, and E) or QML Listing (Class G and D). The product assurance levels are as follows:

<u>Device class</u>	<u>Device performance documentation</u>
K	Highest reliability class available. This level is intended for use in space applications.
H	Standard military quality class level. This level is intended for use in applications where non-space high reliability devices are required.
G	Reduced testing version of the standard military quality class. This level uses the Class H screening and In-Process Inspections with a possible limited temperature range, manufacturer specified incoming flow, and the manufacturer guarantees (but may not test) periodic and conformance inspections (Group A, B, C, and D).
E	Designates devices which are based upon one of the other classes (K, H, or G) with exception(s) taken to the requirements of that class. These exception(s) must be specified in the device acquisition document; therefore the acquisition document should be reviewed to ensure that the exception(s) taken will not adversely affect system performance.
D	Manufacturer specified quality class. Quality level is defined by the manufacturers internal, QML certified flow. This product may have a limited temperature range.

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1.2.4 Case outline. The case outline are as designated in MIL-STD-1835 and as follows:

<u>Outline letter</u>	<u>Descriptive designator</u>	<u>Terminals</u>	<u>Package style</u>
X	See figure 1	10	Dual-in-line
Y	See figure 1	10	Dual-in-line Flange mount

1.2.5 Lead finish. The lead finish shall be as specified in MIL-PRF-38534.

1.3 Absolute maximum ratings. 1/

Input voltage (continuous) .....	+50 V dc
Input voltage (transient, 1 second) .....	+80 V dc
Junction temperature rise above case .....	+15°C
Storage temperature range .....	-65°C to +150°C
Lead temperature (soldering, 10 seconds) .....	+270°C

1.4 Recommended operating conditions.

Input voltage range .....	+15 V dc to +50 V dc
Case operating temperature range (T <sub>c</sub> ).....	-55°C to +125°C

## 2. APPLICABLE DOCUMENTS

2.1 Government specification, standards, and handbooks. The following specification, standards, and handbooks form a part of this drawing to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

### DEPARTMENT OF DEFENSE SPECIFICATION

MIL-PRF-38534 - Hybrid Microcircuits, General Specification for.

### DEPARTMENT OF DEFENSE STANDARDS

MIL-STD-883 - Test Method Standard Microcircuits.  
MIL-STD-1835 - Interface Standard for Electronic Component Case Outlines.

### DEPARTMENT OF DEFENSE HANDBOOKS

MIL-HDBK-103 - List of Standard Microcircuit Drawings.  
MIL-HDBK-780 - Standard Microcircuit Drawings.

(Copies of these documents are available online at <http://quicksearch.dla.mil> from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.2 Order of precedence. In the event of a conflict between the text of this drawing and the references cited herein, the text of this drawing takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

1/ Stresses above the absolute maximum ratings may cause permanent damage to the device. Extended operation at the maximum levels may degrade performance and affect reliability.

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### 3. REQUIREMENTS

3.1 Item requirements. The individual item performance requirements for device classes D, E, G, H, and K shall be in accordance with MIL-PRF-38534. Compliance with MIL-PRF-38534 shall include the performance of all tests herein or as designated in the device manufacturer's Quality Management (QM) plan or as designated for the applicable device class. The manufacturer may eliminate, modify or optimize the tests and inspections herein, however the performance requirements as defined in MIL-PRF-38534 shall be met for the applicable device class. In addition, the modification in the QM plan shall not affect the form, fit, or function of the device for the applicable device class.

3.2 Design, construction, and physical dimensions. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38534 and herein.

3.2.1 Case outline. The case outline shall be in accordance with 1.2.4 herein and figure 1.

3.2.2 Terminal connections. The terminal connections shall be as specified on figure 2.

3.3 Electrical performance characteristics. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and shall apply over the full specified operating temperature range.

3.4 Electrical test requirements. The electrical test requirements shall be the subgroups specified in table II. The electrical tests for each subgroup are defined in table I.

3.5 Marking of devices. Marking of devices shall be in accordance with MIL-PRF-38534. The device shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's vendor similar PIN may also be marked.

3.6 Data. In addition to the general performance requirements of MIL-PRF-38534, the manufacturer of the device described herein shall maintain the electrical test data (variables format) from the initial quality conformance inspection group A lot sample, for each device type listed herein. Also, the data should include a summary of all parameters manually tested, and for those which, if any, are guaranteed. This data shall be maintained under document revision level control by the manufacturer and be made available to the preparing activity (DLA Land and Maritime-VA) upon request.

3.7 Certificate of compliance. A certificate of compliance shall be required from a manufacturer in order to supply to this drawing. The certificate of compliance (original copy) submitted to DLA Land and Maritime-VA shall affirm that the manufacturer's product meets the performance requirements of MIL-PRF-38534 and herein.

3.8 Certificate of conformance. A certificate of conformance as required in MIL-PRF-38534 shall be provided with each lot of microcircuits delivered to this drawing.

### 4. VERIFICATION

4.1 Sampling and inspection. Sampling and inspection procedures shall be in accordance with MIL-PRF-38534 or as modified in the device manufacturer's Quality Management (QM) plan. The modification in the QM plan shall not affect the form, fit, or function as described herein.

4.2 Screening. Screening shall be in accordance with MIL-PRF-38534. The following additional criteria shall apply:

a. Burn-in test, method 1015 of MIL-STD-883.

(1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to either DLA Land and Maritime-VA or the acquiring activity upon request. Also, the test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in method 1015 of MIL-STD-883.

(2)  $T_A$  as specified in accordance with table I of method 1015 of MIL-STD-883.

b. Interim and final electrical test parameters shall be as specified in table II herein, except interim electrical parameter tests prior to burn-in are optional at the discretion of the manufacturer.

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TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions <u>1/</u> -55°C ≤ T <sub>C</sub> ≤ +125°C V <sub>IN</sub> = +28 V dc ±5% full load unless otherwise specified	Group A subgroups	Device types	Limits		Unit
					Min	Max	
Output voltage	+V <sub>OUT</sub>	+I <sub>OUT</sub> , I <sub>OUT</sub> = 1.50 A	1	01	4.95	5.05	V dc
			2,3		4.925	5.075	
		+I <sub>OUT</sub> , I <sub>OUT</sub> = 0.63 A	1	02	11.88	12.12	
			2,3		11.82	12.18	
		+I <sub>OUT</sub> , I <sub>OUT</sub> = 0.50 A	1	03	14.85	15.15	
			2,3		14.775	15.225	
	-V <sub>OUT</sub>	+I <sub>OUT</sub> , I <sub>OUT</sub> = 1.50 A	1	01	-4.925	-5.075	
			2,3		-4.90	-5.10	
		+I <sub>OUT</sub> , I <sub>OUT</sub> = 0.63 A	1	02	-11.82	-12.18	
			2,3		-11.76	-12.24	
		+I <sub>OUT</sub> , I <sub>OUT</sub> = 0.50 A	1	03	-14.775	-15.225	
			2,3		-14.70	-15.30	
Output current <u>2/ 3/</u>	I <sub>OUT</sub>	±V <sub>OUT</sub> V <sub>IN</sub> = 15 V dc to 50 V dc	1,2,3	01		2.1	A
				02		0.875	
				03		0.7	
V <sub>OUT</sub> ripple voltage	V <sub>RIP</sub>	±V <sub>OUT</sub> BW = 20 Hz to 10 MHz	1,2,3	01		30	mVp-p
				02,03		40	
V <sub>OUT</sub> line regulation	V <sub>RLINE</sub>	+V <sub>OUT</sub> V <sub>IN</sub> = 16 V dc to 40 V dc	1,2,3	All		20	mV
		-V <sub>OUT</sub> V <sub>IN</sub> = 16 V dc to 40 V dc				200	
V <sub>OUT</sub> load regulation	V <sub>RLOAD</sub>	+V <sub>OUT</sub> 5% Load to Full Load	1,2,3	All		50	mV
		-V <sub>OUT</sub> <u>4/</u> 5% Load to Full Load				200	
-V <sub>OUT</sub> Cross Regulation	-V <sub>RCRS</sub>	+Load 70%, -Load 30% +Load 30%, -Load 70%	1,2,3	All		500	mV
Input current	I <sub>IN</sub>	I <sub>OUT</sub> = 0, Inhibit (pin 2) = 0	1,2,3	All		6	mA
		I <sub>OUT</sub> = 0, Inhibit (pin 2) = open				90	
I <sub>IN</sub> ripple current	I <sub>RIP</sub>	BW = 20 Hz to 10 MHz	1,2,3	All		50	mAp-p

See footnotes at end of table.

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TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions <u>1/</u> -55°C ≤ T <sub>C</sub> ≤ +125°C V <sub>IN</sub> = +28 V dc ±5% full load unless otherwise specified	Group A subgroups	Device types	Limits		Unit
					Min	Max	
Efficiency	Eff	+ I <sub>OUT</sub> , -I <sub>OUT</sub> = 1.5 A	1,2,3	01	74		%
		+ I <sub>OUT</sub> , -I <sub>OUT</sub> = 0.63 A		02	76		
		+ I <sub>OUT</sub> , -I <sub>OUT</sub> = 0.50 A		03	77		
Isolation	ISO	500 V dc, T <sub>c</sub> = +25°C	1	All	100		MΩ
Capacitive load <u>5/</u>	C <sub>L</sub>	±V <sub>OUT</sub> No effect on DC performance, T <sub>c</sub> = +25°C	1	All		500	μF
Short circuit power Dissipation	P <sub>D</sub>	Short circuit	1,2,3	All		11	W
Switching frequency	F <sub>S</sub>		1,2,3	All	400	550	kHz
V <sub>OUT</sub> step load transient	V <sub>TLOAD</sub>	±V <sub>OUT</sub> 50% load to 100% load	4,5,6	01		200	mV pk
				02		300	
				03		350	
V <sub>OUT</sub> step load transient recovery	T <sub>TLOAD</sub>	±V <sub>OUT</sub> 50% load to 100% load	4,5,6	01		400	μs
				02,03		500	
V <sub>OUT</sub> step line transient <u>5/</u>	V <sub>TLINE</sub>	±V <sub>OUT</sub> V <sub>IN</sub> = 16 V dc to 40 V dc	4,5,6	01		600	mV pk
				02,03		900	
V <sub>OUT</sub> step line transient recovery <u>5/</u>	T <sub>TLINE</sub>	±V <sub>OUT</sub> V <sub>IN</sub> = 16 V dc to 40 V dc	4,5,6	All		500	μs
Start up overshoot <u>6/</u>	V <sub>tonOS</sub>	±V <sub>OUT</sub> V <sub>IN</sub> = 0 V dc to 28 V dc	4,5,6	01		25	mV pk
				02,03		50	
Start up delay	T <sub>onD</sub>	±V <sub>OUT</sub> V <sub>IN</sub> = 0 V dc to 28 V dc	4,5,6	All		20	ms

1/ Half load at +V<sub>OUT</sub> and half load at -V<sub>OUT</sub>.

2/ Derate linearly to 0 at T<sub>C</sub> = +135°C.

3/ Up to 70 percent of the total power or current can be drawn from any one of the two outputs.

4/ 5 percent load to full load at -55°C.

5/ Parameter shall be tested as part of device characterization and after design and process changes. Thereafter, parameter shall be guaranteed to the limits specified in table I.

6/ Time for V<sub>OUT</sub> to settle within ±1 percent of its final value.

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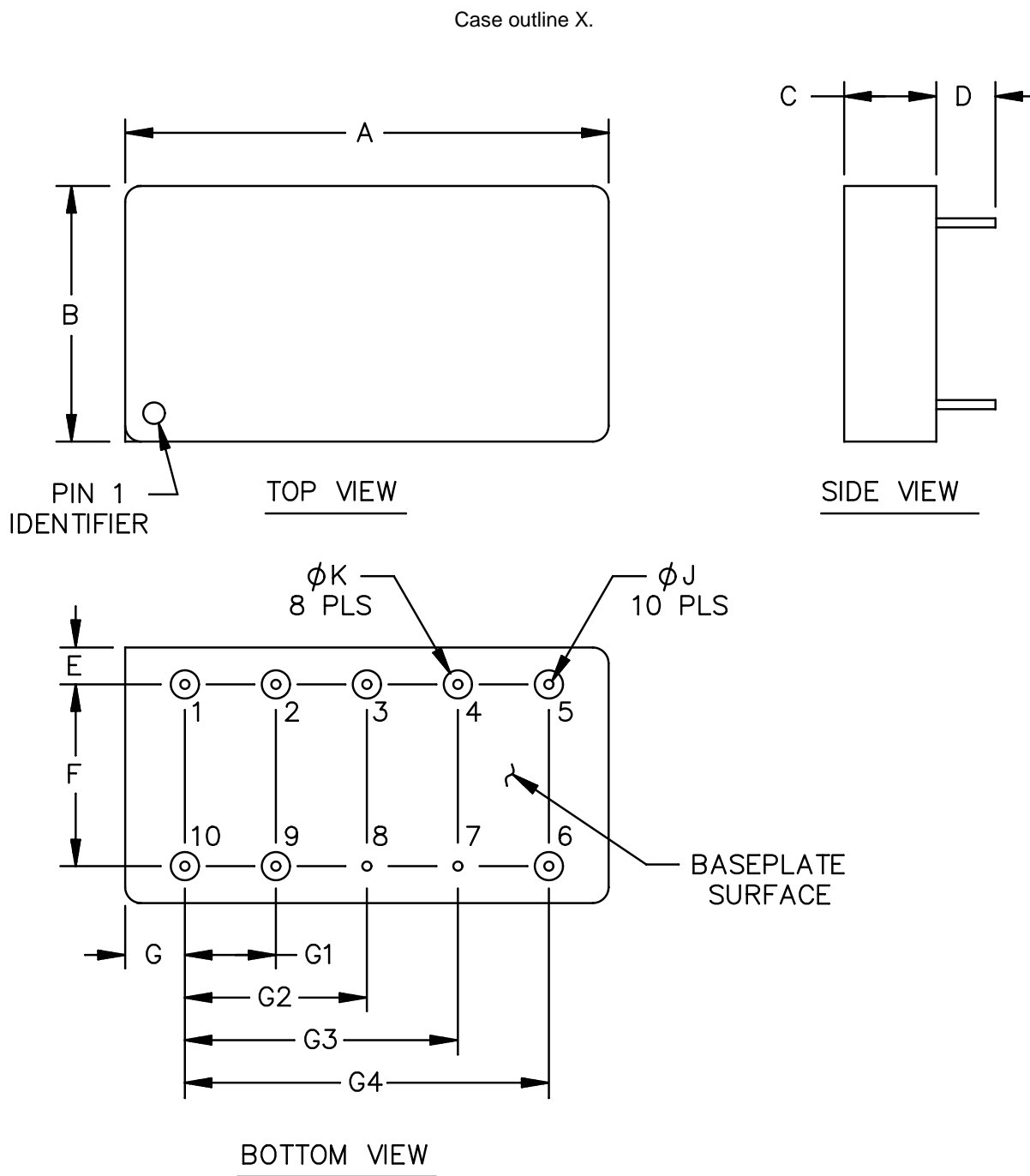


FIGURE 1. Case outline(s).

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Case outline X - Continued.

Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	-	53.98	-	2.125
B	-	28.58	-	1.125
C	-	10.29	-	.405
D	5.97	7.24	.235	.285
E	3.81	4.06	.150	.160
F	20.19	20.45	.795	.805
G	6.35	6.60	.250	.260
G1	10.03	10.29	.395	.405
G2	20.19	20.45	.795	.805
G3	30.35	30.61	1.195	1.205
G4	40.51	40.77	1.595	1.605
øJ	.94	1.09	.037	.043
øK	3.07	3.23	.121	.127

NOTES:

1. The U. S. Government preferred system of measurement is the metric SI. This item was designed using inch-pound units of measurement. In case of problems involving conflicts between the metric and inch-pound units, the inch-pound units shall take precedence.
2. Pin numbers are for reference only.
3. Case outline X weight: 52 grams maximum.

FIGURE 1. Case outline - Continued.

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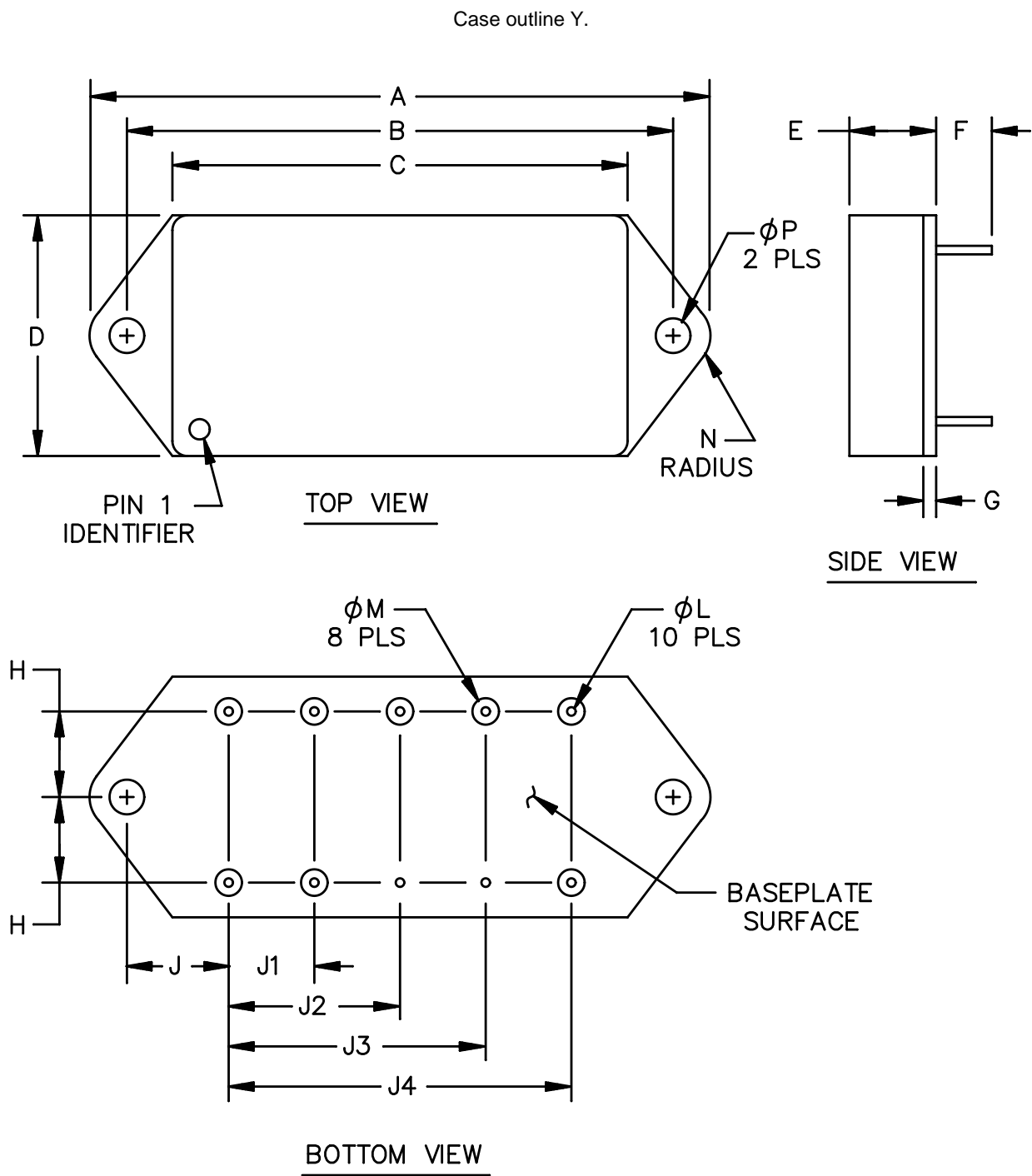


FIGURE 1. Case outline(s) - Continued.

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Case outline Y - Continued.

Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	-	73.41	-	2.890
B	64.64	64.90	2.545	2.555
C	-	53.98	-	2.125
D	-	28.58	-	1.125
E	-	10.29	-	.405
F	5.97	7.24	.235	.285
G	1.40	1.65	.055	.065
H	10.03	10.29	.395	.405
J	11.94	12.19	.470	.480
J1	10.03	10.29	.395	.405
J2	20.19	20.45	.795	.805
J3	30.35	30.61	1.195	1.205
J4	40.51	40.77	1.595	1.605
ØL	.94	1.09	.037	.043
ØM	3.07	3.23	.121	.127
N	3.94	4.19	.155	.165
ØP	3.99	4.24	.157	.167

NOTES:

1. The U. S. Government preferred system of measurement is the metric SI. This item was designed using inch-pound units of measurement. In case of problems involving conflicts between the metric and inch-pound units, the inch-pound units shall take precedence.
2. Pin numbers are for reference only.
3. Case outline Y weight: 55 grams maximum.

FIGURE 1. Case outline(s) - Continued.

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Device types	All
Case outline	X, Y
Terminal numbers	Terminal symbols
1	28 V IN
2	Inhibit
3	+V <sub>OUT</sub>
4	OUT common
5	-V <sub>OUT</sub>
6	Case
7	Case
8	Case
9	Sync
10	IN Common

FIGURE 2. Terminal connections.

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TABLE II. Electrical test requirements.

MIL-PRF-38534 test requirements	Subgroups (in accordance with MIL-PRF-38534, group A test table)
Interim electrical parameters	1, 4
Final electrical parameters	1*, 2, 3, 4, 5, 6
Group A test requirements	1, 2, 3, 4, 5, 6
Group C end-point electrical parameters	1, 2, 3, 4, 5, 6
End-point electrical parameters for Radiation Hardness Assurance (RHA) devices	Not applicable

\* PDA applies to subgroup 1.

4.3 Conformance and periodic inspections. Conformance inspection (CI) and periodic inspection (PI) shall be in accordance with MIL-PRF-38534 and as specified herein.

4.3.1 Group A inspection (CI). Group A inspection shall be in accordance with MIL-PRF-38534 and as follows:

- a. Tests shall be as specified in table II herein.
- b. Subgroups 7, 8, 9, 10, and 11 shall be omitted.

4.3.2 Group B inspection (PI). Group B inspection shall be in accordance with MIL-PRF-38534.

4.3.3 Group C inspection (PI). Group C inspection shall be in accordance with MIL-PRF-38534 and as follows:

- a. End-point electrical parameters shall be as specified in table II herein.
- b. Steady-state life test, method 1005 of MIL-STD-883.
  - (1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to either DLA Land and Maritime-VA or the acquiring activity upon request. Also, the test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in method 1005 of MIL-STD-883.
  - (2)  $T_A$  as specified in accordance with table I of method 1005 of MIL-STD-883.
  - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

4.3.4 Group D inspection (PI). Group D inspection shall be in accordance with MIL-PRF-38534.

4.3.5 Radiation Hardness Assurance (RHA) inspection. RHA inspection is not currently applicable to this drawing.

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## 5. PACKAGING

5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-PRF-38534.

## 6. NOTES

6.1 Intended use. Microcircuits conforming to this drawing are intended for use for Government microcircuit applications (original equipment), design applications, and logistics purposes.

6.2 Replaceability. Microcircuits covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.

6.3 Configuration control of SMD's. All proposed changes to existing SMD's will be coordinated as specified in MIL-PRF-38534.

6.4 Record of users. Military and industrial users shall inform DLA Land and Maritime when a system application requires configuration control and the applicable SMD. DLA Land and Maritime will maintain a record of users and this list will be used for coordination and distribution of changes to the drawings. Users of drawings covering microelectronic devices (FSC 5962) should contact DLA Land and Maritime-VA, telephone (614) 692-8108.

6.5 Comments. Comments on this drawing should be directed to DLA Land and Maritime-VA, Columbus, Ohio 43218-3990, or telephone (614) 692-1081.

6.6 Sources of supply. Sources of supply are listed in MIL-HDBK-103 and QML-38534. The vendors listed in MIL-HDBK-103 and QML-38534 have submitted a certificate of compliance (see 3.7 herein) to DLA Land and Maritime-VA and have agreed to this drawing.

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## STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 15-05-05

Approved sources of supply for SMD 5962-11227 are listed below for immediate acquisition information only and shall be added to MIL-HDBK-103 and QML-38534 during the next revisions. MIL-HDBK-103 and QML-38534 will be revised to include the addition or deletion of sources. The vendors listed below have agreed to this drawing and a certificate of compliance has been submitted to and accepted by DLA Land and Maritime-VA. This information bulletin is superseded by the next dated revisions of MIL-HDBK-103 and QML-38534. DLA Land and Maritime maintains an online database of all current sources of supply at <http://www.landandmaritime.dla.mil/Programs/Smcr/>.

Standard microcircuit drawing PIN <u>1</u> /	Vendor CAGE number	Vendor similar PIN <u>2</u> /
5962-1122701HXC 5962-1122701HXA 5962-1122701HYC 5962-1122701HYA 5962-1122701KXC 5962-1122701KXA 5962-1122701KYC 5962-1122701KYA	0ZBZ6 0ZBZ6 0ZBZ6 0ZBZ6 0ZBZ6 0ZBZ6 0ZBZ6 0ZBZ6	DVHV2805D/H DVHV2805D/H-E DVHV2805DF/H DVHV2805DF/H-E DVHV2805D/K DVHV2805D/K-E DVHV2805DF/K DVHV2805DF/K-E
5962-1122702HXC 5962-1122702HXA 5962-1122702HYC 5962-1122702HYA 5962-1122702KXC 5962-1122702KXA 5962-1122702KYC 5962-1122702KYA	0ZBZ6 0ZBZ6 0ZBZ6 0ZBZ6 0ZBZ6 0ZBZ6 0ZBZ6 0ZBZ6	DVHV2812D/H DVHV2812D/H-E DVHV2812DF/H DVHV2812DF/H-E DVHV2812D/K DVHV2812D/K-E DVHV2812DF/K DVHV2812DF/K-E
5962-1122703HXC 5962-1122703HXA 5962-1122703HYC 5962-1122703HYA 5962-1122703KXC 5962-1122703KXA 5962-1122703KYC 5962-1122703KYA	0ZBZ6 0ZBZ6 0ZBZ6 0ZBZ6 0ZBZ6 0ZBZ6 0ZBZ6 0ZBZ6	DVHV2815D/H DVHV2815D/H-E DVHV2815DF/H DVHV2815DF/H-E DVHV2815D/K DVHV2815D/K-E DVHV2815DF/K DVHV2815DF/K-E

- 1/ The lead finish shown for each PIN representing a hermetic package is the most readily available from the manufacturer listed for that part. If the desired lead finish is not listed contact the Vendor to determine its availability.
- 2/ Caution. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.

STANDARD MICROCIRCUIT DRAWING BULLETIN – Continued.

DATE: 15-05-05

Vendor CAGE  
number

0ZBZ6

Vendor name  
and address

VPT, Incorporated  
1971 Kraft Drive, Suite 1000  
Blacksburg, VA 24060

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